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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 1 of 6

Complete if Known

Application Number	09/471,669
Filing Date	December 24, 1999
First Named Inventor	John P. Anderson
Art Unit	1652
Examiner Name	Malgorzata A. Walicka
Attorney Docket Number	015270-006430US

U.S. PATENT DOCUMENTS					
Examiner	Cite No. ¹	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
<i>ch</i>	1	6,361,975	03-26-2002	Christie, et al.	
<i>ch</i>	2	6,358,725	03-19-2002	Christie, et al.	
<i>ch</i>	3	6,319,489	11-20-2001	Powell, et al.	
<i>ch</i>	4	6,319,689	11-20-2001	Powell, et al.	
<i>ch</i>	5	6,313,268	11-06-2001	Hook	
<i>ch</i>	6	6,245,884	06-12-2001	Hook	
<i>ch</i>	7	6,245,964	06-12-2001	McConlogue, et al.	
<i>ch</i>	8	6,221,645	04-24-2001	Chrysler, et al.	
<i>ch</i>	9	6,211,428	04-03-2001	Singh, et al.	
<i>ch</i>	10	6,162,630	12-19-2000	Powell, et al.	<i>In 892</i>
<i>ch</i>	11	6,025,180	02-15-2000	Powell, et al.	
<i>ch</i>	12	5,942,400	08-24-1999	Anderson, et al.	<i>Already in 892</i>
<i>ch</i>	13	5,877,015	03-02-1999	Hardy, et al.	
<i>ch</i>	14	5,849,560	12-15-1998	Abraham	
<i>ch</i>	15	5,837,672	11-17-1998	Schenk, et al.	
<i>ch</i>	16	5,795,963	08-18-1998	Mullan	
<i>ch</i>	17	5,766,846	06-16-1998	Schlossmacher, et al.	
<i>ch</i>	18	5,750,349	05-12-1998	Suzuki, et al.	
<i>ch</i>	19	5,744,346	04-28-1998	Chrysler, et al.	<i>In 892</i>
<i>ch</i>	20	5,733,768	03-31-1998	Dixon, et al.	
<i>ch</i>	21	5,593,846	01-14-1997	Schenk, et al.	
<i>ch</i>	22	5,455,169	10-03-1995	Mullan	
<i>ch</i>	23	5,424,205	06-13-1995	Dovey, et al.	
<i>ch</i>	112	09/869,414		Gurney, et al.	
<i>ch</i>	90	09/794,927		Gurney, et al.	
<i>ch</i>	91	09/794,925		Gurney, et al.	

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Sheet

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Application Number

09/471,669

Filing Date

December 24, 1999

First Named Inventor

John P. Anderson

Art Unit

1652

Examiner Name

Malgorzata A. Walicka

Attorney Docket Number

015270-006430US

U.S. PATENT DOCUMENTS

Examiner	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code ² (if known)			
<i>chw</i>	89	09/795,847	NA	Gurney, et al.	
<i>chw</i>	92	09/794,748		Gurney, et al.	
<i>chw</i>	88	09/794,743		Gurney, et al.	
<i>chw</i>	111	09/681,442		Gurney, et al.	
<i>chw</i>	87	09/551,853		Gurney, et al.	
<i>chw</i>	96	09/548,376		Gurney, et al.	
<i>chw</i>	24	09/548,373		Gurney, et al.	
<i>chw</i>	99	09/548,372		Gurney, et al.	
<i>chw</i>	94	09/548,370		Gurney, et al.	
<i>chw</i>	97	09/548,369		Gurney, et al.	
<i>chw</i>	100	09/548,368		Gurney, et al.	
<i>chw</i>	98	09/548,367		Gurney, et al.	
<i>chw</i>	25	09/548,366		Gurney, et al.	
<i>chw</i>	95	09/548,365		Gurney, et al.	
<i>chw</i>	26	09/416,901		Gurney, et al.	
<i>chw</i>	27	09/404,133		Gurney, et al.	
<i>chw</i>	28	09/277,229		Citron, et al.	
<i>chw</i>	29	60/210,292		Hong, et al.	
<i>chw</i>	30	60/178,368		Lin, et al.	
<i>chw</i>	31	60/177,836		Lin, et al.	
<i>chw</i>	32	60/168,060		Lin, et al.	
<i>chw</i>	33	60/155,493		Gurney, et al.	
<i>chw</i>	34	60/141,363		Lin, et al.	
<i>chw</i>	35	60/139,172		Anderson, et al.	
<i>chw</i>	36	60/119,571		Basi, et al.	
<i>chw</i>	37	60/114,408		Basi, et al.	
<i>chw</i>	38	60/101,594		Gurney, et al.	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 3 of 6

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Application Number	09/471,669
Filing Date	December 24, 1999
First Named Inventor	John P. Anderson
Art Unit	1652
Examiner Name	Malgorzata A. Walicka
Attorney Docket Number	015270-006430US

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Country Code ²	Foreign Patent Document Number ⁴	Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
<i>chw</i>	30	EP	EP 0 855 444	A2	07-29-1998		<i>Already in 892</i>	
<i>chw</i>	40	EP	EP 0 848 062	A2	06-17-1998			
<i>chw</i>	48	PCT	WO 01/38487	A2	05-31-2001			
<i>chw</i>	49	PCT	WO 01/36600	A1	05-25-2001			
<i>chw</i>	50	PCT	WO 01/31054	A1	05-03-2001			
<i>chw</i>	51	PCT	WO 01/29563	A1	04-26-2001			
<i>chw</i>	52	PCT	WO 01/00665	A2	01-04-2001			
<i>chw</i>	53	PCT	WO 01/00663	A2	01-04-2001			
<i>chw</i>	47	PCT	WO 00/69262	A1	11-23-2000			
<i>chw</i>	46	PCT	WO 00/68266	A1	11-16-2000			
<i>chw</i>	45	PCT	WO 00/58479	A1	10-05-2000			
<i>chw</i>	44	PCT	WO 00/56871	A2	09-28-2000			
<i>chw</i>	43	PCT	WO 00/47618	A3	08-17-2000			
<i>chw</i>	42	PCT	WO 00/23576	A2	04-27-2000		<i>Already in 892</i>	
<i>chw</i>	41	PCT	WO 00/17369	A2	03-30-2000			
<i>chw</i>	54	PCT	WO 99/64587	A1	12-16-1999			
<i>chw</i>	55	PCT	WO 99/46281	A2	09-16-1999			
<i>chw</i>	57	PCT	WO 99/34004	A2	08-07-1999			
<i>chw</i>	59	PCT	WO 99/31236	A2	06-24-1999			
<i>chw</i>	60	PCT	WO 98/26059		06-18-1998			
<i>chw</i>	61	PCT	WO 98/21589		05-22-1998			
<i>chw</i>	62	PCT	WO 98/13488		04-02-1998			
<i>chw</i>	63	PCT	WO 98/11236		03-19-1998			
<i>chw</i>	103	PCT	WO 97/47314		12-18-1997			
<i>chw</i>	56	PCT	WO 96/40885	A2	12-19-1996			
<i>chw</i>	58	PCT	WO 96/31122	A1	10-10-1996			
<i>chw</i>	102	PCT	WO 96/20725	A2	07-11-1996			
Examiner Signature	<i>M. Walicka</i>				Date Considered	12/17/02		

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**INFORMATION DISCLOSURE
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Sheet 4 of 6

Complete if Known

Application Number	09/471,669
Filing Date	December 24, 1999
First Named Inventor	John P. Anderson
Art Unit	1652
Examiner Name	Malgorzata A. Walicka
Attorney Docket Number	015270-006430US

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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
dw	104	Baldwin, et al., Crystal structures of native and inhibited forms of human cathepsin D: Implications for lysosomal targeting and drug design, <i>PNAS USA</i> , 90:6796-6800 (1993).	
dw	105	Brown, et al., Evaluation of Cathepsins D and G and EC 3.4.24.15 as Candidate β -Secretase Proteases Using Peptide and Amyloid Precursor Protein Substrates, <i>Journal of Neurochemistry</i> , 66: 2436-2445 (1996).	
dw	106	Chevallier, et al., Cathepsin D displays in vitro β -secretase-like specificity, <i>Brain Research</i> , 750:11-19 (1997).	
dw	64	Chyung, et al. Novel β -Secretase Cleavage of β -Amyloid Precursor Protein in the Endoplasmic Reticulum/Intermediate Compartment of NT2N Cells, <i>Journal of Cell Biology</i> , 138: 671-680 (August 11, 1997).	
dw	107	Diedrich, et al., Nucleotide sequence of a cDNA encoding mouse cathepsin D, <i>Nucleic Acids Research</i> , 18:7184 (1990).	
dw	65	Elan Corporation, plc and Pharmacia Corporation announce research collaboration, News 08/09/2000, www.elancorp.com.	
dw	66	Evin, et al., Alzheimer's disease amyloid precursor protein (β APP): proteolytic processing, secretases and β A4 amyloid production, <i>Amyloid; Int. J. Exp. Clin. Invest.</i> 1: 263-280 (September 8, 1994).	
dw	67	Haass, et al., Amyloid β -peptide is Produced by Cultured Cells During Normal Metabolism, <i>Nature</i> , 359: 322-325 (September 24, 1992).	
dw	68	Haass, et al., The Swedish Mutation Causes Early-Onset Alzheimer's Disease by β -Secretase Cleavage Within the Secretory Pathway, <i>Nature Medicine</i> , 12: 1291-1296 (December 1995).	
dw	69	Haass, et al., β -Amyloid Peptide and 3-kDa Fragment are Derived by Distinct Cellular Mechanisms, <i>Journal of Biochemistry</i> , 268: 3021-3024 (February 15, 1993).	
dw	70	Hirosawa, et al., Characterization of cDNA Clones Selected by the GeneMark Analysis from Size-Fractionated cDNA Libraries From Human Brain, <i>DNA Res.</i> , 6(5): 329-336 (October 29, 1999).	

Examiner
Signature

Malgorzata A. Walicka

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Sheet 5 of 6

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Application Number	09/471,669
Filing Date	December 24, 1999
First Named Inventor	John P. Anderson
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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

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JW	71	Hussain, et al., Identification of a Novel Aspartic Protease (Asp-2) as β -Secretase, <i>Molecular and Cellular Neuroscience</i> , 14: 419-427 (1999).	892
JW	72	Kang, et al., The Precursor of Alzheimer's Disease Amyloid A4 Protein Resembles a Cell-Surface Receptor, <i>Nature</i> , 325: 733-736 (February 19, 1987).	
JW	73	Kitaguchi, et al., Novel Precursor of Alzheimer's Disease Amyloid Protein Shows Protease Inhibitory Activity, <i>Nature</i> , 331: 530-532 (February 11, 1988).	
JW	74	Knops, et al., Cell-type and Amyloid Precursor Protein-type Specific Inhibition of A β Release by Bafilomycin A1, a Selective Inhibitor of Vacuolar ATPases, <i>Journal of Biological Chemistry</i> , 270: 2419-2422 (February 10, 1995).	
JW	75	Koo and Squazzo, Evidence that Production and Release of Amyloid β -Protein Involves the Endocytic Pathway, <i>Journal of Biological Chemistry</i> , 269: 17386-17389 (July 1, 1994).	
JW	108	Majer, et al., Structure-based subsite specificity mapping of human cathepsin D using statine-based inhibitors, <i>Protein Science</i> , 6:1458-1466 (1997).	
JW	76	Mullan, et al., A Pathogenic Mutation for Probable Alzheimer's Disease in the APP Gene at the N-Terminus of β -Amyloid, <i>Nature Genetics</i> 1: 345-347, (August 1992).	
JW	77	PCT Search report for PCT/US99/20881	
JW	78	PCT Search report for PCT/US00/03819	
JW	79	Ponte, et al., A New A4 Amyloid mRNA Contains a Domain Homologous to Serine Proteinase Inhibitors, <i>Nature</i> , 331: 525-527 (February 11, 1988).	
JW	109	Saftig, et al., Amyloidogenic Processing of Human Amyloid Precursor Protein in Hippocampal Neurons Devoid of Cathepsin D, <i>Journal of Biological Chemistry</i> , 271:27241-27244 (1996).	
JW	110	Schechter, et al., On the size of the active site in proteases. I. Papain, <i>Biochemical and Biophysical Research Communications</i> , 27:157-162 (1967).	

Examiner
Signature

JW

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dm	80	Seubert, et al. Secretion of β -amyloid Precursor Protein Cleaved at the Amino Terminus of the β -amyloid Peptide, <i>Nature</i> , 361: 260-263 (January 21, 1993).	
dm	81	Sinha, et al., Purification and Cloning of Amyloid Precursor Protein β -Secretase from Human Brain, <i>Nature</i> , 402: 537-540 (December 2, 1999).	892
dm	82	Szecs, The Aspartic Proteases, <i>Scand. J. Clin. Lab. Invest.</i> , 52 (suppl. 210): 5-22 (1992).	
dm	83	Tanzi, et al., Protease Inhibitor Domain Encoded by an Amyloid Protein Precursor mRNA Associated with Alzheimer's Disease, <i>Nature</i> , 331: 528-530 (February 11, 1988).	
dm	93	Thompson, et al., Expression and characterization of human β -secretase candidates metalloendopeptidase MP78 and cathepsin D in β APP-overexpressing cells, <i>Molecular Brain Research</i> , 48:206-214.	
dm	84	Vassar, et al., β -secretase Cleavage of Alzheimer's Amyloid Precursor Protein by the Transmembrane Aspartic Protease BACE, <i>Science</i> , 286 (5440): 735-41 (October 22, 1999).	892
dm	85	Yan, et al., Membrane-anchored Aspartyl Protease with Alzheimer's Disease β -Secretase Activity, <i>Nature</i> , 402: 533-537 (December 2, 1999).	892
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dm	86	Zhao, et al., β -Secretase Processing of the β -Amyloid Precursor Protein in Transgenic Mice Is Efficient in Neurons but Inefficient in Astrocytes, <i>Journal of Biological Chemistry</i> , 271: 31407-31411 (December 6, 1996).	

already in 892

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